

NOTEWORTHY PLANTS FROM NORTH FLORIDA. VIII

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ABSTRACT

Additions to the flora of north Florida are documented. *Bradburia pilosa* (Nutt.) Semple, *Hydrocotyle bowlesioides* Mathias & Constance, *Ottelia alismoides* (L.) Pers., *Ranunculus laxicaulis* (Torr. & A. Gray) Darby, and *Solidago gigantea* Ait. are new to the state; several species new to the panhandle are listed. Additionally, many first reports for counties within the Florida panhandle are given.

RESUMEN

Se documentan las adiciones a la flora del norte de Florida. *Bradburia pilosa* (Nutt.) Semple, *Hydrocotyle bowlesioides* Mathias & Constance, *Ottelia alismoides* (L.) Pers., *Ranunculus laxicaulis* (Torr. & A. Gray) Darby, y *Solidago gigantea* Ait. son nuevas para el estado; se listan varias especies nuevas para el "panhandle." Adicionalmente, se dan muchas primeras citas para condados del "panhandle" de Florida.

In most previous installments of this series (Anderson 1984, 1986, 1988, 1989, 1991, 1995), "north Florida" was defined as the Florida panhandle west of the Suwannee River. In Anderson 2000 the area of coverage was expanded to include selected counties of northeastern Florida. This installment returns to the original, more restricted area of coverage, i.e., the area covered by Clewell (1985). Nomenclature generally follows Wunderlin and Hansen (2003). Austin's study (1980) was used to identify *Cuscuta* species, and Flora of North America treatments were used for Cyperaceae. Herbarium specimens are at FSU unless noted otherwise.

These findings update species distributions as mapped by Wunderlin and Hansen (2004).

TAXA NEW TO THE AREA

Arachis prostrata Benth.—Calhoun Co.: Rte 20 on E edge of Blountstown, 22 Jul 2002, Anderson 20353, 26 Jun 2003, Anderson 20736. Florida Department of Transportation workers (pers. comm.) planted this here in 1999 as "Arachis glabrata cultivar. Ecoturf," and it is naturalized and spreading. New to the Florida panhandle.

Bradburia pilosa (Nutt.) Semple—Leon Co.: Capitol Circle NW at railroad crossing, Tallahassee, 23 May 2003, Anderson 20728, 22 May 2004, Anderson 20931. Population persisting but presently showing no signs of becoming invasive. New to Florida; Semple (2006) mentioned possible introduction in Leon County, based on my collections, but did not put a dot for Florida on the map.

Cichorium intybus L.—Escambia Co.: W of Cantonment, 26 May 2001, J. Burkhalter 17811 (FSU, UWFP). New to the Florida panhandle.

Coccinia grandis (L.) Voigt.—Escambia Co.: vacant lot on Cervantes St, Pensacola, 16 Sep 2005, J. Burkhalter 20502 (UWFP), 16 Oct 2005, J. Burkhalter 20541 (FSU, UWFP). New to Florida panhandle..

Cuscuta obtusiflora HBK var. **glandulosa** Engelm.—Jackson Co.: limestone glade (Williams no. 2), NW of Marianna, 21 Jul 2005, Anderson 21197. New to the Florida panhandle.

Emilia sonchifolia (L.) DC.—Leon Co.: bordering Call St on FSU campus, Tallahassee, 17 Nov 2006, Anderson 22642; by Kosha Lab on campus, 27 Dec 2006, Anderson 22708. New to north Florida. Flowers of these population were exserted 2 mm from the involucre, thus the plants were not distinguishable from *E. fosbergii* Nicolson (which is also on campus) when using the Wunderlin and Hansen (2003) key. Distinguishing features (lyrate leaves and much shorter corolla lobes) as listed by Nicolson (1975) assured proper identification; also this species has lilac corollas, whereas *E. fosbergii* corollas are salmon to red-orange in color.

Euphorbia graminea Jacq.—Escambia Co.: near Pensacola (6709 Pensacola Blvd.), 18 Dec 2004, J. Burkhalter 20223 (FSU, UWFP); Leon Co.: 3606 Maclay Blvd, Tallahassee, 17 Nov 2006, Anderson 22643. New to the Florida panhandle.

Hydrocotyle bowlesioides Mathias & Constance.—Leon Co.: 3606 Maclay Blvd, Tallahassee, 17 Nov 2006, Anderson 22645. New to Florida and second report for the United States. The first known occurrence of this species in the United States was from southern Georgia (Anderson 1983). I monitored the Georgia population; it gradually died out by the early 1990's. Erection of the building and its associated landscaping for the Florida site occurred in 2003, so the Georgia population was not the source for this introduction into Florida.

Hyptis verticillata Jacq.—Bay Co.: S of Hwy 98 beside Liddon St., Panama City, 14 Sep 2005; J.R. Burkhalter 20490 (FSU, UWFP). New to the Florida panhandle.

Kalanchoe daigremontiana Raym.-Hamet & H. Perrier.—Wakulla Co.: several plants at Rte 365 bridge over Wakulla River, 5 Jan 2006, Anderson 21525. New to Florida panhandle.

Momordica charantia L.—Leon Co.: St. Augustine Rd, ESE of Tallahassee, 25 Oct 2005, Anderson 21467. This population dies back each winter but increases in area coverage every following year. New to the Florida panhandle.

Ottelia alismoides (L.) Pers.—Escambia Co.: 11 Aug 2005, J. Burkhalter 20479 (FSU, UWFP). First observed here in 2003 by J. Van Dyke of Florida Dept. Environmental Protection; Burkhalter (letter of 15 Dec 05) reported this invasive species occurs in “uncountable thousands” and has taken over Thompson’s Bayou and Ferry Pass Bayou of the Escambia River delta. New to Florida; previously known only in the United States in Louisiana and California.

Ranunculus laxicaulis (Torr. & A. Gray) Darby.—Leon Co.: locally abundant in meadow N side of Hwy 90 (2.5 mi ENE of Baum community), 19 Apr 2006, Anderson 21680, 22 Apr 2006, Anderson 21711. New to Florida. Wunderlin and Hansen (2003) list the species as excluded from the state (specimens of *R. pusillus* misapplied with this name). My specimens key to *R. flaxicaulis*; the flowers have 5–6 petals which are 5–5.5 mm long, whereas petals are fewer and much smaller in flowers of *R. pusillus* Poir. (Whittemore 1997).

Ruellia ciliatiflora Hooker.—Leon Co.: North Monroe St (Hwy 27) at Old Bainbridge Rd, Tallahassee, 20 Nov 2004, Anderson 20957. New to the Florida panhandle.

Solidago gigantea Ait.—Liberty Co.: mesic woodland bordering Apalachicola River at Estiffanulga, 13 Sep 2001, Anderson 19945. New to Florida; Semple and Cook (2006) noted this collection was the only one they saw from Florida—all other Florida collections so named were *S. leavenworthii* Torrey & A. Gray.

Symphyotrichum kralii Nesom.—Santa Rosa Co.: edge of lake at Camp Paquette, 27 Oct 1995, Anderson 16036. This population plus some from Karick Lake and Krull Lake had been identified as *Aster laeve* L. var. *concinnum* Willd. by A. G. Jones and were the basis of reporting that species in Florida (Anderson 2000), but I was uncomfortable with that determination. Guy Nesom recently identified a duplicate of Anderson 16036 (BRIT) as *S. kralii*. Semple (pers. comm.) suggests *S. kralii* may be included in *S. dumosum* (L.) Nesom or *S. simmondsii* (Small) Nesom, and Wunderlin and Hansen (2003) include it in the latter, but these specimens look like neither of those species as I understand them and are possibly new to Florida. Obviously, the taxonomy of the asters is still a work in progress.

Symphyotrichum laeve (L.) Löve & Löve var. **concinnum** (Willd.) Nesom.—Jackson Co.: edge of limestone glade, 30 Sep and 20 Oct 2005, Anderson 21385 and Anderson 21461. Duplicates of these specimens were identified by J. Semple (WAT), so this taxon remains in the flora of Florida, but its presence is based on these more recently discovered, different plants.

Tradescantia pallida (Rose) D.R. Hunt—Leon Co.: naturalized in woodland remnant in N part of Tallahassee, 31 Jan 2006, Anderson 21530. New to the Florida panhandle.

Tridax procumbens L.—Leon Co.: edges of lawn adjacent to Richards Building, F.S.U. campus, Tallahassee, 18 Nov 2005, Anderson 21514, many plants in cracks of sidewalk and parking area at Nuclear Research Building, F.S.U. campus, Tallahassee, 13 May 2006, Anderson 21803. New to the Florida panhandle.

Zinnia violacea Cav.—Jackson Co.: frequent along Bumpnose Rd bordering open pasture, 2.2 mi N of Hwy 90 (Marianna), 20 Oct 2005, Anderson 21465. New to the Florida panhandle.

ADDITIONAL RANGE EXTENSIONS

Some of the following are county records that “fill in” gaps (and thus were expected occurrences); they are listed without additional notation. Other collections bear significance worthy of further comment.

Acer saccharinum L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21575.

Aesculus pavia L.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21639.

Agalinis linifolia (Nuttall) Britton.—Leon Co.: moist depression beside Old Plank Rd, SE of Tallahassee, 25 Oct 2005, Anderson 21474.

Agrostis perennans (Walter) Tuck.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21647.

Albizia julibrissin Durazz.—Calhoun Co.: roadside ditch, Blountstown, 24 May 2006, T. MacClendon 460.

Ambrosia artemisiifolia L.—Calhoun Co.: Myers Dairy Rd, SW side of Blountstown, 27 Sep 2006, T. MacClendon 524.

Amsonia taberaemontana Walter.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21646.

Arenaria serpyllifolia L.—Calhoun Co.: disturbed roadside near landing at Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21580.

Aeschynomene americana L.—Gulf Co.: under Overstreet bridge, 11 Nov 2006, Anderson 22625.

Aureolaria flava (L.) Farw.—Gadsden Co.: edge of Brickyard Glade, 23 May 2006 (atypical phenology), Anderson 21869.

Brickellia eupatorioides (L.) Shinners.—Gadsden Co.: hillside glade, 0.8 mi N of Dolan Rd, 8 Nov 2005, Anderson 21504.

Bromus commutatus Schrad.—Bay Co.: East Panama City Beach, 14 May 1996, Keppner s. n.; Jackson Co.: roadside depression along Rte 167 near Dry Creek, 12 May 2006, Anderson 21781; Leon Co.: Tallahassee, 23 Apr 1984, Anderson 7075; N of Tallahassee, 14 May 1984, Godfrey 81299; Hwy 90 roadside 0.8 mi E of Magnolia Rd, 19 Apr 2006, Anderson 21686 (the two 1984 collections were originally identified as *B. japonicus* Thunb, but later annotated by L. E. Pavlich as *B. commutatus*).

Calyptocarpus vialis Less.—Jefferson Co.: moist shaded loam N side of Hwy 90 at Lake Miccosukee boat landing, 19 Apr 2006, Anderson 21665.

Campsis radicans (L.) Seem. ex Bureau—Calhoun Co.: Ocheesee Landing on Apalachicola River, 9 Nov 2006, MacClendon 542.

Carex alata Torr.—Wakulla Co.: hydric hammock at McBride Slough near Rte 267, 26 May 2006, Anderson 21871.

Carex aureolensis Mack.—Jefferson Co.: Lake Miccosukee boat landing by Hwy 90, 19 Apr 2006, Anderson 21671, 2 Aug 2006, Anderson 22160. Wunderlin and Hansen (2003) do not list this species, but may have included it under *C. frankii* Kunth. Ford and Reznicek (2002) consider the two species distinct with only *C. aureolensis* occurring in Florida—either way this is a new county record.

Carex chapmanii Steudel.—Gadsden Co.: Flat Creek, W of Rte 269, 20 Apr 2006, Anderson 21741; Jackson Co.: mesic woodland near boat ramp, Three Rivers State Park, 20 May 2006, Anderson 21833.

Carex cherokeensis Schwein.—Calhoun Co.: calcareous mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21553.

Carex dasycarpa Muhl.—Calhoun Co.: sandy, wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21640.

Carex festucacea Schkuhr ex Willd.—Wakulla Co.: hydric hammock, St. Marks Nat'l Wildlife Refuge headquarters, 26 May 2006, Anderson 21879.

Carex fissa Mack. var. **aristata** F.J. Herm.—Calhoun Co.: 0.5 mi E of Chipola River beside Rte 20, 5 May 2003, Anderson 20698.

Carex gigantea Rudge.—Jackson Co.: shallow waters of Dry Creek at Rte 167 bridge, 12 May 2006, Anderson 21783.

Carex kraliana Naczi & Bryson.—Jackson Co.: wooded edge of limestone glade NW of Marianna, 25 Mar 2006, Anderson 21594. This rare species is also found in Gadsden and Leon counties in Florida.

Carex leavenworthii Dewey.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21576. Ball in Flora of North America (2002) lists this species as distinct from *C. cephalophora* Muhl. ex Willd., but Wunderlin and Hansen (2004) list the two species under the latter in their atlas. Either way, it is a new county record.

Carex leptalea Wahlenb.—Jackson Co.: hydric hammock W of Rte 73 along N side of Dry Creek, 12 May 2006, Anderson 21790.

Carex muhlenbergii Schkuhr.—Gadsden Co.: Booth Hill, W end of Dolan Rd, 16 Apr 2003, Anderson 20679.

Carex oxylepis Torr. & Hook.—glade like opening (Brooks # 3) in woods NW of Marianna, 2 Jun 2006, Anderson 21926.

Carex thornei Naczi.—Leon Co.: Lafayette Heritage Trail Park, Tallahassee, 2 Apr 2003, Anderson 20615. This rare species is also found in Gadsden and Liberty counties in Florida.

Carex typhina Michx.—Calhoun Co.: mesic hardwoods on low bluff along Apalachicola River, SE of Blountstown, 8 Jun 2006, Anderson 2966.

Carex venusta Dewy.—Gadsden Co.: seepage below Powerline Glade, 23 May 2006, Anderson 21843.

Centella erecta (L. f.) Fern.—Calhoun Co.: open firelane beside ti-ti thicket, ca. 7.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21956. Wunderlin and Hansen (2003) list this species as *C. asiatica* (L.) Urb. Years ago, Lincoln Constance told me *C. asiatica* (a diploid) does not occur in the continental United States and that ours is *C. erecta* (a tetraploid). Either way, the species is new to the county.

Cercis canadensis L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21583.

Chaerophyllum tainturieri Hook.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21574.

Cinnamomum camphora (L.) Presl.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 16 Feb 2006, Anderson 21532.

Cocculus carolinus (L.) DC.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21557.

Commelina virginica L.—Calhoun Co.: mesic woodland along Apalachicola River, SE of Blountstown, 4 Apr 2006, Anderson 21620.

Conyza bonariensis (L.) Cronquist.—Calhoun Co.: Myers Dairy Rd, SW side of Blountstown, 17 Aug 2006, T. & K. MacClendon 521.

Croton glandulosus L.—Calhoun Co.: Myers Dairy Rd, SW side of Blountstown, 19 Aug 2006, T. & K. MacClendon 522.

Cuscuta gronovii Willd. ex Schult. in Roem. & Schult.—Jackson Co.: limestone glade (Williams no. 2), NW of Marianna, 30 Sep 2005, Anderson 21372.

Cuscuta pentagona Engelm.—Jackson Co.: limestone glade (Williams no. 2), NW of Marianna, 30 Sep 2005, Anderson 21380.

Desmodium ochroleucum M.A. Curtis ex Canby—Jackson Co.: woods at edge of fairway, Marianna Caverns Golf Course, 30 Sep 2005, Anderson 21360 (this doubles the known sites for this taxon in Florida). This species is listed as endangered in Florida (Coile & Garland 2003).

Dichanthelium leucothrix (Nash) Freckmann.—Calhoun Co.: ephemeral pond bottom, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21945.

Dichanthelium oligosanthes (Schult.) Gould.—Jackson Co.: Williams glade # 2 , NW of Marianna, 2 Jun 2005, Anderson 21913.

Dichanthelium strigosum (Muhl. ex Elliott) Freckmann.—Calhoun Co.: fallow field (cutover flatwoods) along River St in Blountstown, 8 Jun 2006, Anderson 21971; Gadsden Co.: edge of Humphrey Glade between I-10 and Dolan Rd, 8 Nov 2005, Anderson 21491.

Dioscorea alata L.—Wakulla Co.: locally common on N side Hwy 98 at Newport, 30 Nov 2006, Anderson 22684.

Dioscorea bulbifera L.—Leon Co.: still in my yard in Tallahassee after 30 years of trying to eradicate, 2 Dec 2006, Anderson 22692; Wakulla Co.: frequent on N side Hwy 98 at Newport, 30 Nov 2006, Anderson 22685.

Eleocharis baldwinii (Torr.) Chapm.—Calhoun Co.: ephemeral pond bottom, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21944.

Eleocharis tortilis (Link) Schultes.—Gadsden Co.: shaded floodplain of Flat Creek, 29 Apr 2006, Anderson 21728. This species is infrequently collected in the state; three 19th century Florida collections exist at NY. Two are labeled “Chapman s.n., Florida” and one is “Chapman s.n., Aspalaga, Florida.” Aspalaga is a historic river landing in Gadsden County, so the current collection confirms the species’ continued presence in the county.

Eragrostis ciliaris (All.) Vignolo ex Janch.—Leon Co.: near loading zone behind Conradi Bldg on Florida State University campus, Tallahassee, 18 Sep 2006, Anderson 22388. This is the third county of record for the state.

Erigeron annuus (L.) Pres.—Calhoun Co.: W side of Blountstown (3.7 mi E of Rte 71 on Rte 20), 1 Jun 2006, Anderson 21898.

Eryngium prostratum Nutt. ex DC.—Calhoun Co.: W side of Blountstown (3.7 mi E of Rte 71 on Rte 20), 1 Jun 2006, Anderson 21897.

Fimbristylis autumnalis (L.) Roem. & Schult.—Calhoun Co.: ephemeral pond bottom, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21943.

Fragaria virginiana Duchesne.—Jackson Co.: rich calcareous woods, Three Rivers State Park, 4 Apr 1979, A. K. Gholson 7587; edge of limestone glade (Brooks no. 1), NW of Marianna, 21 Jul 2005, Anderson 21206; edge of limestone glade (Williams no. 2); 30 Sep 2005, Anderson 21383. This species was previously known only from Leon County from collections made by R. M. Harper in 1927 (NY), but it has apparently not been collected in that county since then.

Galium aparine L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21573.

Galium circaeans Michx.—Gadsden Co.: wooded slopes above Apalachicola River near Aspalaga, 29 Apr 2006, Anderson 21745.

Gelsemium sempervirens (L.) Ait. f.—Calhoun Co.: woodland along River St near Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21581.

Gentiana pennelliana Fern.—Leon Co.: wet savanna in Gully Bay extension of Grand Bay, Apalachicola National Forest, 11 Dec 2002, Anderson 20552. This species is listed as endangered in Florida (Coile and Garland 2003).

Glyceria striata (Lam.) Hitchc.—Leon Co.: wet depression in powerline corridor on S side Hwy 90, 0.5 mi W of Lake Miccosukee boat landing, 19 Apr 2006, Anderson 21674.

Gymnopogon ambiguus (Michx.) BSP.—Jackson Co.: edge of limestone glade (Williams no. 2), NW of Marianna, 30 Sep 2005, Anderson 21382.

Gymnopogon brevifolius Trin.—Gulf Co.: wet flatwoods W of Depot Creek, S of Port St. Joe, 13 Oct 2005, T. Mitchell s.n.

- Gymnostyles anthemifolia** Juss.—Escambia Co.: E. Pensacola Beach, 8 Nov 2005, J. Burkhalter 20341 (FSU, UWFP). New to western panhandle and second record for north Florida.
- Hexaletris spicata** (Walt.) Barnh.—Gadsden Co.: large population at hunt camp near Aspalaga, 27 Jul 2005, Anderson 21247. This species is listed as endangered in Florida (Coile and Garland 2003).
- Hydrocotyle verticillata** Thunb. var. **triradiata** (A. Rich.) Fern.—Jefferson Co.: shaded mud at Lake Miccosukee Hwy 90 boat landing, 2 Aug 2006, Anderson 22162. New county record for this variety.
- Hypochaeris glabra** L.—Jackson Co.: E of Rte 71 near Rocky Creek, 20 Apr 2006, Anderson 21707, picnic area, Three Rivers State Park, 20 May 2006, Anderson 21834.
- Hypoxis rigida** Chapm.—Gadsden Co.: E.B. Glade (recently burned), 23 May 2006, Anderson 21854.
- Hypoxis wrightii** (Baker) Brackett.—Gadsden Co.: E.B. Glade, 23 May 2006, Anderson 21853; Jackson Co.: Williams #2 Glade, 2 Jun 2006, Anderson 21907; Liberty Co.: N of Rte 20 opposite Rte 2224, 4 Aug 2006, Anderson 22169.
- Ipomoea pandurata** (L.) G. Mey.—Calhoun Co.: Abe Springs, SW of Blountstown, 15 Jun 2006, T. & K. MacClendon 504.
- Ipomoea triloba** L.—Liberty Co.: Apalachicola River floodplain under Rte 20 bridge, 19 Oct 2005, Anderson 21428. Listed as a Federal Noxious Weed.
- Iva angustifolia** Nutt. ex DC.—Calhoun Co.: Myers Dairy Rd, Blountstown, 21 Jun 2006, T. & K. MacClendon 509.
- Iva imbricata** Walter.—Gulf Co.: sand dunes N end of St. Joseph Peninsula, 17 Sep 2005, Anderson 21326.
- Juncus repens** Michx.—Calhoun Co.: ephemeral pond bottom, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21946.
- Lamium amplexicaule** L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21545; Gadsden Co.: Rte 12 roadside SW of Greensboro, 20 Mar 2006, Anderson 21535.
- Landoltia punctata** (G. Mey.) Les & D.J. Crawford.—Jefferson Co.: with *Wolffiella* in shallow water at Lake Miccosukee Hwy 90 boat landing, 2 Aug 2006, Anderson 22176.
- Lemna valdiviana** Phil.—Calhoun Co.: abundant along shaded pond margin, ca. 5.7 air mi WSW of Altha, 5 Jun 2006, Anderson 21957.
- Lespedeza procumbens** Michx.—Gadsden Co.: N edge of Humphrey Glade between I-10 and Dolan Rd, 8 Nov 2005, Anderson 21480.
- Lespedeza repens** (L.) Bart.—Calhoun Co.: oak-pine sandhill, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21940.
- Lindernia crustacea** (L.) F. Muell.—Liberty Co.: Apalachicola River floodplain under Rte 20 bridge, 28 Sep 2005, Anderson 21353.
- Lolium arundinaceum** (Schreb.) Darbysh.—Jackson Co.: beside Rte 73 just NW of Marianna, 2 Jun 2006, Anderson 21899.
- Lonicera sempervirens** L.—Calhoun Co.: woods bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21664.
- Ludwigia glandulosa** Walt.—Calhoun Co.: fallow field (cutover flatwoods) along River St in Blountstown, 8 Jun 2006, Anderson 21973.
- Ludwigia leptocarpa** (Nutt.) Hara.—Calhoun Co.: Ocheesee Landing on Apalachicola River, 9 Nov 2006, MacClendon 541.
- Malvastrum coromandelianum** (L.) Garcke.—Calhoun Co.: disturbed edge of mesic woodland along Apalachicola River, SE of Blountstown, 8 Jun 2006, Anderson 21962.
- Matelea floridana** (Vail) Woodson.—Jackson Co.: both flowering and fruiting, near E entrance of Florida Caverns State Park, 27 Jul 2005, Anderson 21218; W side of Florida Caverns State Park, 27 Jul 2005, Anderson 21227; both flowering and fruiting, Williams #3 Glade, 2 Jun 2006, Anderson 21921. This species is listed as endangered in Florida (Coile and Garland 2003).

Medicago arabica (L.) Huds.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21570.

Medicago lupulina L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 8 Jun 2006, Anderson 21963.

Medicago polymorpha L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21540; Jefferson Co.: Lake Miccosukee boat landing, 19 Apr 2006, Anderson 21670.

Melia azedarach L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21559. This species is listed as a Category II invasive exotic (FLEPPC 2005).

Melilotus albus Medik.—Calhoun Co.: roadside ditch, Blountstown, 31 May 2006, T. MacClendon 467; beside Bear Head Rd., ca. 7.8 mi WSW of Altha, 5 Jun 2006, Anderson 21958.

Micromeria brownei (Sw.) Benth. var. **pilosiuscula** A. Gray.—Wakulla Co.: Rte 267 roadside by McBride Slough, 26 May 2006, Anderson 21874.

Mitchella repens L.—Calhoun Co.: woods bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21658.

Modiola caroliniana (L.) G. Don.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21550.

Muhlenbergia schreberi J. F. Gmel.—Gadsden Co.: wooded edge of E.B. Glade, 23 May 2006, Anderson 21849.

Murdannia keisak (Hask.) Handel-Mazz.—Gadsden Co.: shaded wet shoals in Flat Creek, 29 Apr 2006, Anderson 21740.

Murdannia nudiflora (L.) Brenan.—Calhoun Co.: roadside near Apalachicola River boat landing, SE side of Blountstown, 19 Oct 2005, Anderson 21436.

Myosotis macrosperma Engelm.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21543.

Nemophila aphylla (L.) Brummitt.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 16 Feb 2006, Anderson 21533, 20 Mar 2006, Anderson 21576; fourth county of record and southernmost population in the state.

Oxalis debilis Kunth var. **corymbosa** (DC.) Lourteig.—Calhoun Co.: wooded floodplain of Apalachicola River, SE side of Blountstown, 1 Feb 2005, Anderson 20958.

Oxycaryum cubense (Poeppig & Kunth) Lye.—Jackson Co.: inflorescences monocephalous, shore of Lake Seminole at boat ramp, Three Rivers State Park, 20 May 2006, Anderson 21830. This species is “morphologically plastic” (Bruhl 2002); the typical form is polycephalous, but most plants in the panhandle have compactly monocephalous inflorescences and can be referred to as *O. cubense* forma *paraguayense* (Maury) T. M. Pedersen. Wunderlin and Hansen (2003) list this species as *Scirpus cubensis* Poeppig & Kunth. (either way new to the county).

Packera glabella (Poir.) C. Jeffrey.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21548.

Parthenium hysterophorus L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21541.

Pediomelum canescens (Michx.) Rydb.—Calhoun Co.: oak-pine sandhill, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21941.

Phalaris angusta Nees ex Trin.—Jackson Co.: roadside ditch, W of Chipola River, 1.3 mi S of Rte 278 on Rte 73, 12 May 2006, Anderson 21800; Leon Co.: Conner Creek in Lafayette Heritage Trail Park, Tallahassee, 1 Jun 2002, Anderson 20254, wet depression along powerline S of Hwy 90 near Jefferson County line, 19 Apr 2006, Anderson 21679.

Phoradendron leucarpum (Raf.) Reveal & M. C. Johnst.—Calhoun Co.: in trees along River St. in Blountstown, 4 Apr 2006, Anderson 21627.

Physalis angulata L.—Calhoun Co.: with *P. heterophylla* and *P. pubescens* in fallow field (cutover flatwoods) along River St. in Blountstown, 8 Jun 2006, Anderson 21972.

Physalis pubescens L.—Calhoun Co.: fallow field (cutover flatwoods) along River St. in Blountstown, 8 Jun 2006, Anderson 21969.

Piriqueta cistoides (L.) Griseb. subsp. **caroliniana** (Walt.) Arbo.—Gadsden Co.: E.B. Glade, 23 May 2006, Anderson 21851.

Pityopsis flexuosa (Nash) Small.—Jefferson Co.: ca. 2.1 mi ESE of Wacissa, 27 Oct 05, Neel 0502. This endemic species is listed as endangered in Florida (Coile and Garland 2003).

Plantago rugelii Decne.—Jefferson Co.: shaded mud at Lake Miccosukee Hwy 90 boat landing, 2 Aug 2006, Anderson 22159. Third county of record in the state for this species (and best looking population).

Plantago wrightiana Decne.—Jackson Co.: drying shoulder of Rte 71 at Rocky Creek bridge, 12 May 2006, Anderson 21806.

Platanus occidentalis L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21543.

Pluchea baccharis (Millet) Pruski.—Calhoun Co.: roadside ditch, Blountstown, 12 Apr 2006, T. MacClendon 466. This species is listed as *P. rosea* Godfrey by Wunderlin and Hansen (2003), but Nesom (2006) listed that species as a synonym for the earlier name.

Poa annua L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21576.

Polygonum hirsutum Walt.—Calhoun Co.: ephemeral pond bottom, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21949.

Prunus caroliniana (Mill.) Ait.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 16 Feb 2006, Anderson 21584.

Prunus persica (L.) Batsch—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 16 Feb 2006, Anderson 21531.

Pteris multifida Poir.—Gadsden Co.: limestone outcrop in maple, beech, magnolia, oak woodland above Apalachicola River floodplain near Aspalaga, 27 Jul 2005, Anderson 21256.

Pycnanthemum albescens T. & G. ex A. Gray.—Jefferson Co.: 4.5 mi W of Wacissa, 31 Oct 2005, Neel 0504.

Pycnanthemum setosum Nuttall.—Jackson Co.: limestone glade (Williams no. 3), NW of Marianna, 21 Jul 2005, Anderson 21176; limestone glade (Williams no. 2), NW of Marianna, 2 Jun 2006, Anderson 21912.

Ranunculus abortivus L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21547.

Ranunculus sardous Crantz.—Jackson Co.: wet roadside depression of Rte 73 at edge of hydric hammock along Dry Creek, 12 May 2006, Anderson 21788.

Rhynchosia tomentosa Hook. & Arn. var. **tomentosa**.—Calhoun Co.: oak-pine sandhill, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21938.

Rhynchospora compressa J. Caery ex Chapm.—Gadsden Co.: Powerline Glade, 23 May 2006, Anderson 21862.

Richardia humistrata (Cham. & Schldl.) Schult. & Schult. f.—Jackson Co.: edge of fairway, Marianna Caverns Golf Course, 27 Jul 2005, Anderson 21222. New for county and significant range extension eastward within the state.

Sagittaria filiformis J. G. Sm.—Calhoun Co.: ephemeral pond bottom, ca. 5.8 air mi WSW of Altha, 5 Jun 2006, Anderson 21948.

Sanicula odorata (Raf.) Pryer & Phillippe.—Calhoun Co.: shaded mesic woodland along Apalachicola River, SE of Blountstown, 4 Apr 2006, Anderson 21619.

Sassafras albidum (Nutt.) Nees.—Calhoun Co.: woodland along River St near Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21582.

Setaria pumila (Poir.) Roem. & Schult.—Calhoun Co.: Abe Springs, Blountstown, 26 Jul 2006, T. & K. MacClendon 519.

Sida elliptii Torr. & A. Gray.—Jackson Co.: limestone glade (Williams no. 3), NW of Marianna, 21 Jul

2005, Anderson 21179; limestone glade (Williams no. 2), 30 Sep 2005, Anderson 21373; limestone glade W of Rte 73, NW of Marianna, 20 Oct 2005, Anderson 21453.

Silene regia Sims.—Jackson Co.: both flowering and fruiting plants observed, W side of Florida Caverns State Park, 27 Jul 2005, Anderson 21225. King (1981) noted this species is well established in Missouri and “elsewhere, the species is rare and widely dispersed, if not extirpated.” Its presence in Florida (Jackson County) was documented in 1940 by Henry 2312 (ISC, MIN); this new report confirms the rare species is not extirpated in Florida (certainly a candidate for listing as endangered in Florida).

Smilax ecirrhata Wats.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21644.

Smilax lasioneuron Hook.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21648.

Sonchus asper (L.) Hill.—Calhoun Co.: roadside weed beside Rte 20 on E side of Blountstown, 20 Mar 2006, Anderson 21585.

Spermacoce densiflora (DC.) Alain.—Calhoun Co.: abundant along roadsides near Apalachicola River boat landing, SE side of Blountstown, 19 Oct 2005, Anderson 21431.

Spiranthes odorata (Nuttall) Lindley.—Gadsden Co.: partially shaded edge of Humphrey Glade between I-10 and Dolan Rd, 8 Nov 2005, Anderson 21485; Jefferson Co.: 7 air mi SE of Wacissa, 31 Oct 2005, H. Neel 0503.

Sporobolus vaginiflorus (Torr. ex A. Gray) A. W. Wood.—Jackson Co.: limestone glade (Williams no. 2), NW of Marianna, 30 Sep 2005, Anderson 21390; limestone glades (Brooks no. 1 and 4), 20 Oct 2005, Anderson 21445, Anderson 21449; Bumpnose glade, N of Marianna, 20 Oct 2005, Anderson 21463. Previously known only to Gadsden County in Florida.

Symphytum fontinale (Alexander) G.L. Nesom.—Gadsden Co.: between Humphrey Glade and Dolan Rd, 8 Nov 2005, Anderson 21495.

Symphytum shortii (Lindl.) G.L. Nesom.—Jackson Co.: limestone glade (Brooks no. 1), NW of Marianna, 20 Oct 2005, Anderson 21440. This aster was previously known in Florida only in Gadsden County .

Symphytum simmondsii (Small) G.L. Nesom.—Calhoun Co.: Ocheesee Landing on Apalachicola River, 9 Nov 2006, MacClendon 538; Franklin Co.: Bloody Bluff, Apalachicola River, 15 Nov 1984, Anderson 7776, Hickory Landing, Owl Creek, 4 Dec 1984, Anderson 7816, St. Vincent Island, 25 Oct 1985, Anderson 8993, Van Horn Landing, Apalachicola River, 24 Jan 1986, Anderson 9091; Jefferson Co.: Wacissa Springs, 31 Oct 2002, Anderson 20505; Leon Co.: wet edge of stormwater pond N of Tallahassee, 30 Nov 2005, Anderson 21521; Madison Co.: lakeside in Greenville, 19 Dec 1986, Anderson 10271; Wakulla Co.: McBride Slough, 1 Nov 1984, Anderson 7765, ditch near St. Marks post office, 5 Nov 1985, Godfrey 81961.

Tilia americana L. var. **caroliniana** (Mill.) Castigl.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21652.

Tillandsia recurvata (L.) L.—Leon Co.: epiphytic on *Quercus geminata* Small and *Ulmus parvifolia* Jacq. along edge of commercial parking lot, Raymond Diehl Rd, Tallahassee, 16 Nov 2005, Anderson 21513. Naturalized; county record and new to central panhandle. These relatively young trees apparently came from nursery stock in south Florida; the bromeliads are healthy and laden with fruiting branches.

Tradescantia ohiensis Raf.—Gadsden Co.: maple, beech, magnolia, oak woodland near Aspalaga, 27 Jul 2005, Anderson 21245.

Tridens flavus (L.) Hitchc. var. **flavus**.—Calhoun Co.: roadsides near boat landing, SE side of Blountstown, 19 Oct 2005, Anderson 21432.

Trifolium campestre Schreber.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21542.

Trifolium carolinianum Michx.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21578.

Trifolium incarnatum L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21571.

Trifolium nigrescens Viv.—Calhoun Co.: disturbed roadside just S of Rte 274 Chipola River bridge SW of Altha, 12 Apr 2006, Anderson 21660.

Urena lobata L.—Leon Co.: street side in Tallahassee, 8 Oct 2005, Anderson 21427. County record and new to central panhandle. This species is listed as a Category II exotic invasive species in Florida (FLEPPC 2005).

Verbena officinalis L. subsp. **halei** (Small) Barber.—Calhoun Co.: disturbed roadside just S of Rte 274 Chipola River bridge SW of Altha, 12 Apr 2006, Anderson 21661.

Veronica arvensis L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 16 Feb 2006, Anderson 21534.

Veronica peregrina L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21567.

Veronica persica Poir.—Gadsden Co.: Rte 12 roadside SW of Greensboro, 20 Mar 2006, Anderson 21537.

Viburnum obovatum Walter.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21562.

Vicia minutiflora Dietr.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21560.

Vicia sativa L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21571.

Vicia tetrasperma (L.) Schreb.—Jackson Co.: calcareous loam of disturbed site, W edge of Florida Caverns State Park, N of Marianna, 25 Mar 2006, Anderson 21614.

Wisteria sinensis (Sims) Sweet.—Calhoun Co.: woodland along River St near Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21579.

Wolffiella gladiata (Hegelm.) Hegelm.—Jefferson Co.: shallow water at Lake Miccosukee Hwy 90 boat landing, 2 Aug 2006, Anderson 22163.

Xanthium strumarium L. var. **glabratum** (DC.) Cronquist.—Calhoun Co.: roadside near boat landing, SE side of Blountstown, 19 Oct 2005, Anderson 21434.

Youngia japonica L.—Calhoun Co.: disturbed mesic woodland along Apalachicola River, SE of Blountstown, 20 Mar 2006, Anderson 21577.

Yucca aloifolia (L.) DC.—Jackson Co.: Williams #2 Glade, 2 Jun 2006, Anderson 21910.

Zizia aptera (A. Gray) Fernald.—Calhoun Co.: wooded calcareous slopes bordering Chipola River WSW of Altha, 12 Apr 2006, Anderson 21642. Second known site for the state of Florida.

Knowledge on the composition and distribution of the state's flora is still incomplete. The large number of reports given here for Calhoun County of relatively common species (plus some rare ones) reinforces the observation (see Moerman & Estabrook 2006) that generally the further a county is from a university in the state, the less well-known is its flora [e.g., Leon County (home of Florida State University) had 1664 species listed by Wunderlin and Hansen (2004) prior to this paper; Alachua County (home of University of Florida) had 1535; Calhoun County had 911 prior to this paper; and Lafayette County (equidistant between FSU and UF) had the fewest with 423 species listed].

Emphasis on Calhoun County has been twofold. Anderson made frequent visits to his dentist in Blountstown and then collected while in the county. Travis and Karen MacClendon live in the county and have begun a "Calhoun County Herbarium" with support from the county officials who donated herbarium supplies. This grassroots effort will provide a valuable plant identification resource for interested local citizenry.

The high number of first reports for Gadsden and Jackson counties is one result of the ongoing extensive survey of the limestone glades (unique within the state) by Wilson Baker and Loran Anderson.

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